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FIG.1A

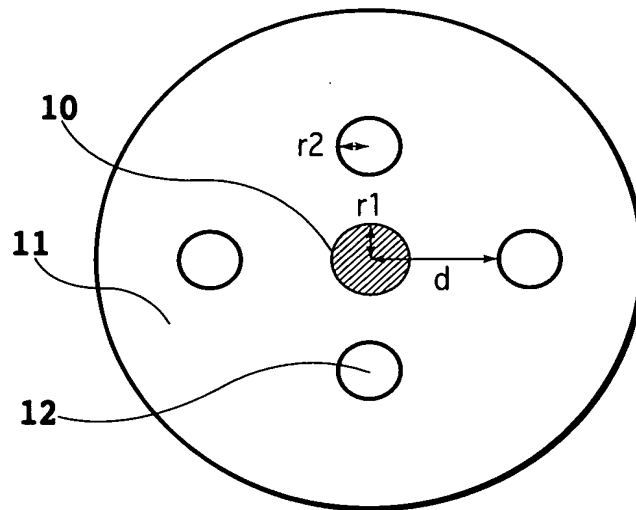


FIG.1B

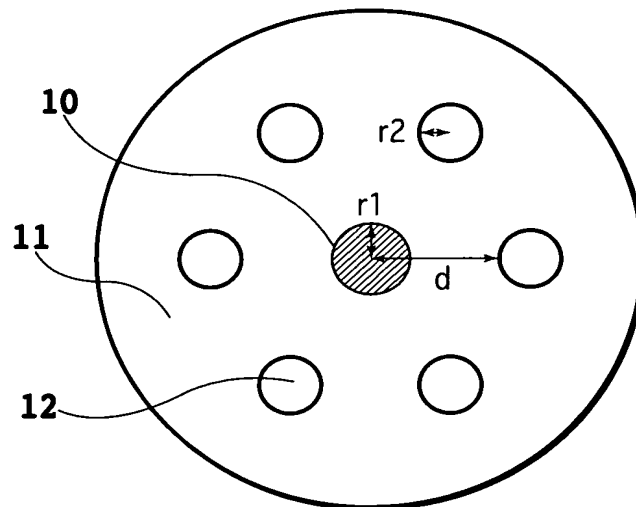
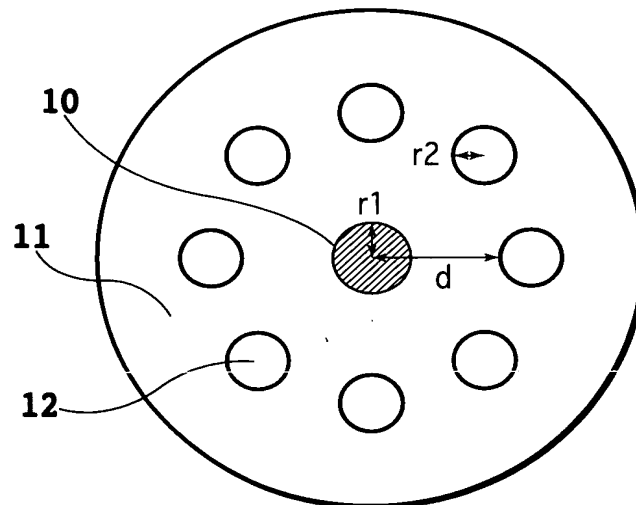


FIG.1C



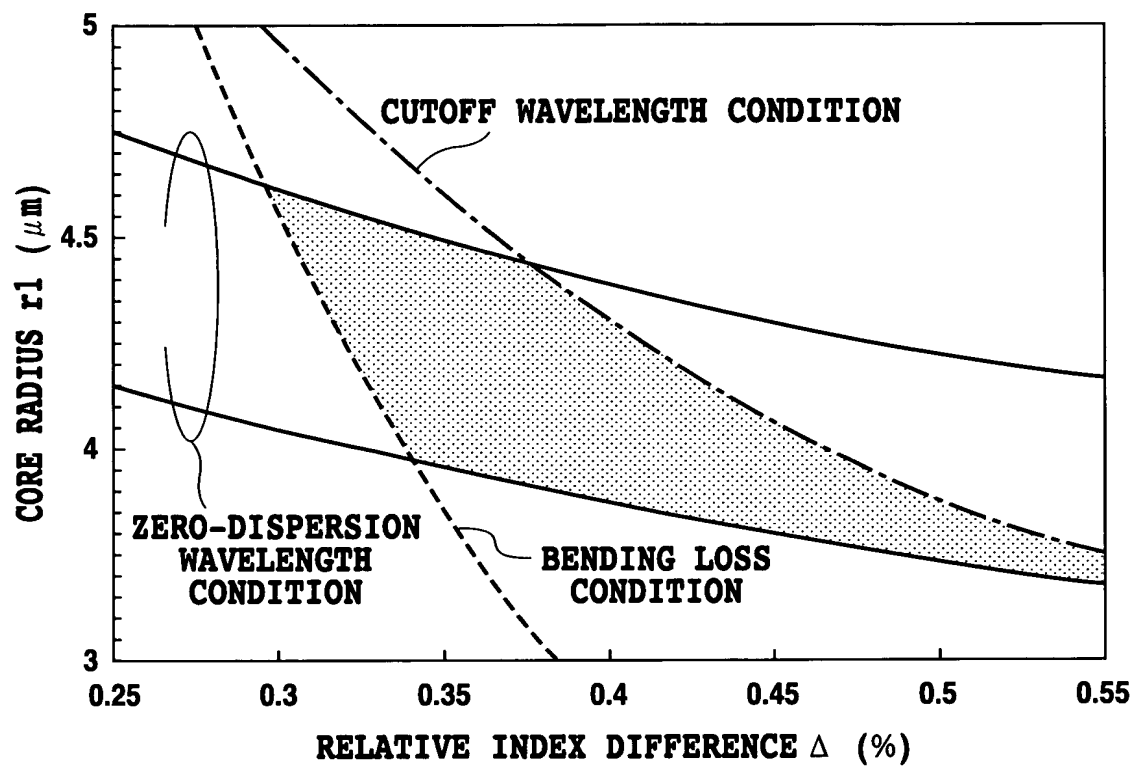


FIG.2
PRIOR ART

FIG.3A

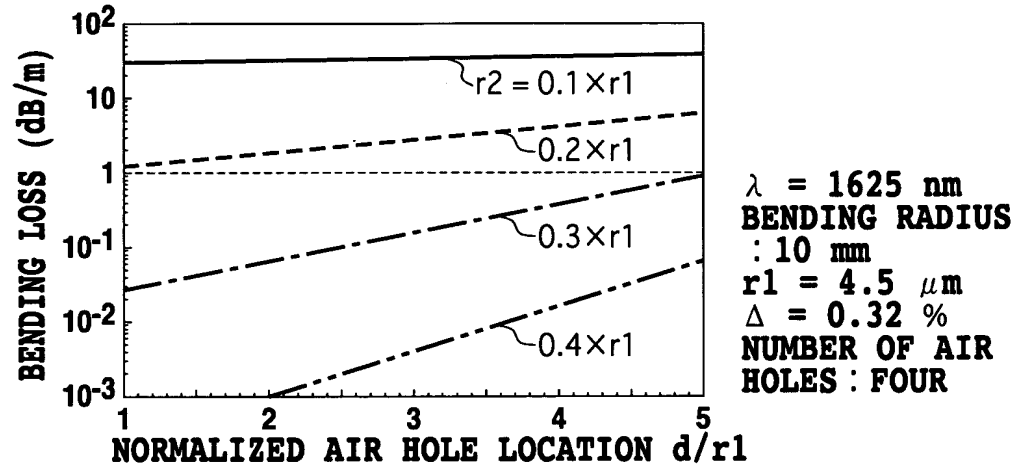


FIG.3B

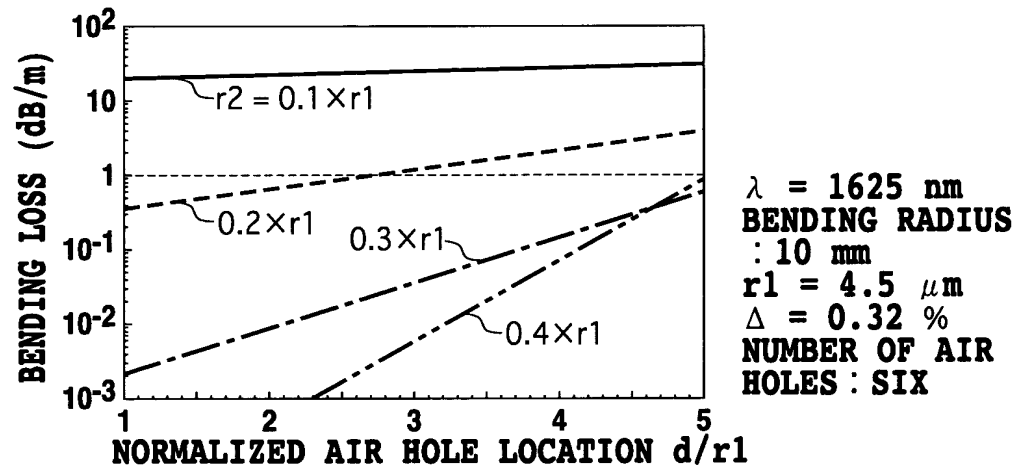
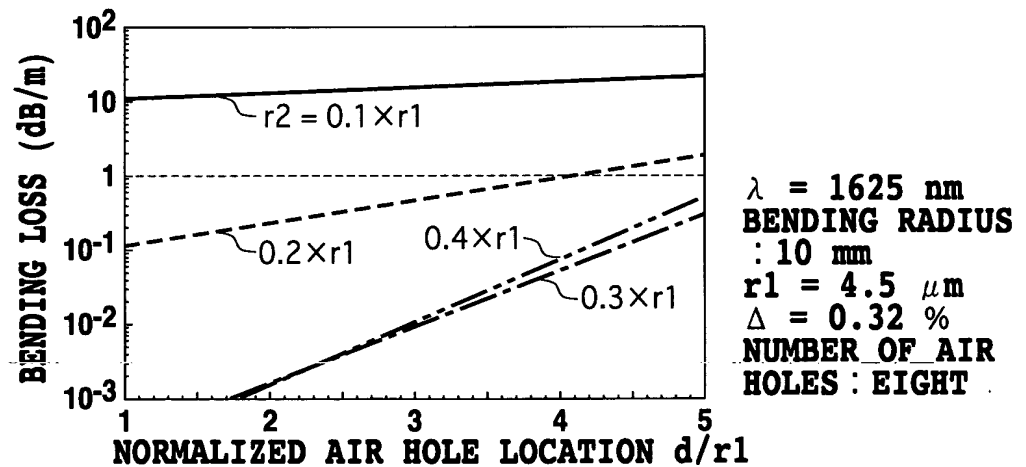


FIG.3C



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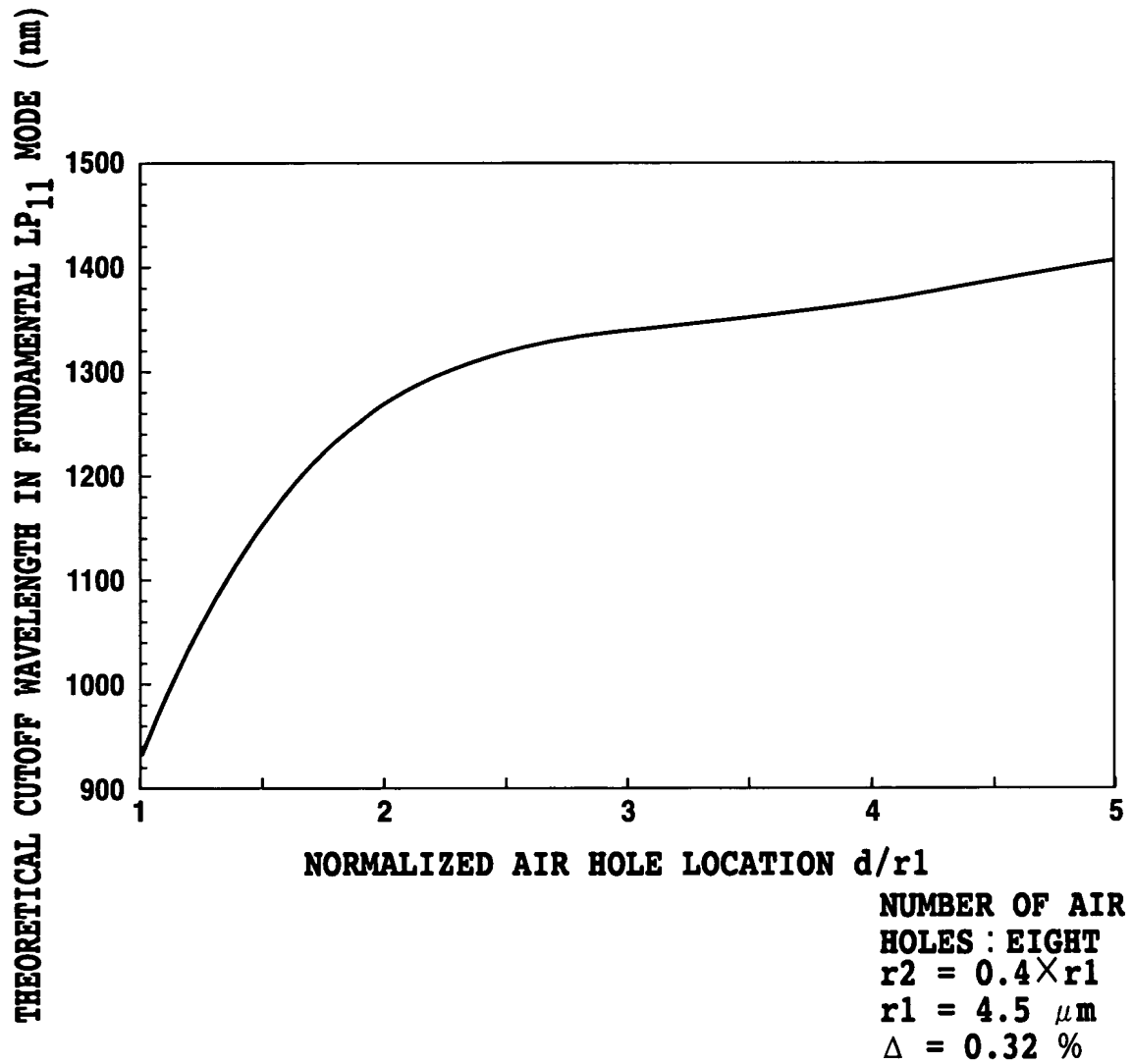
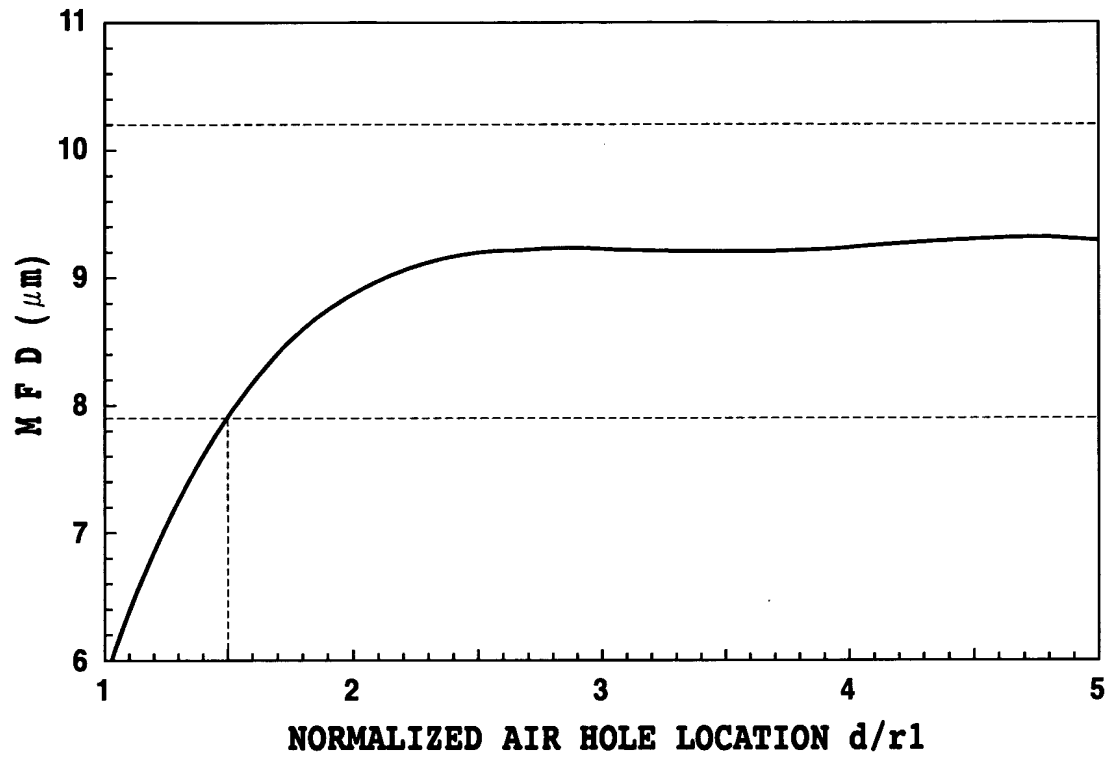
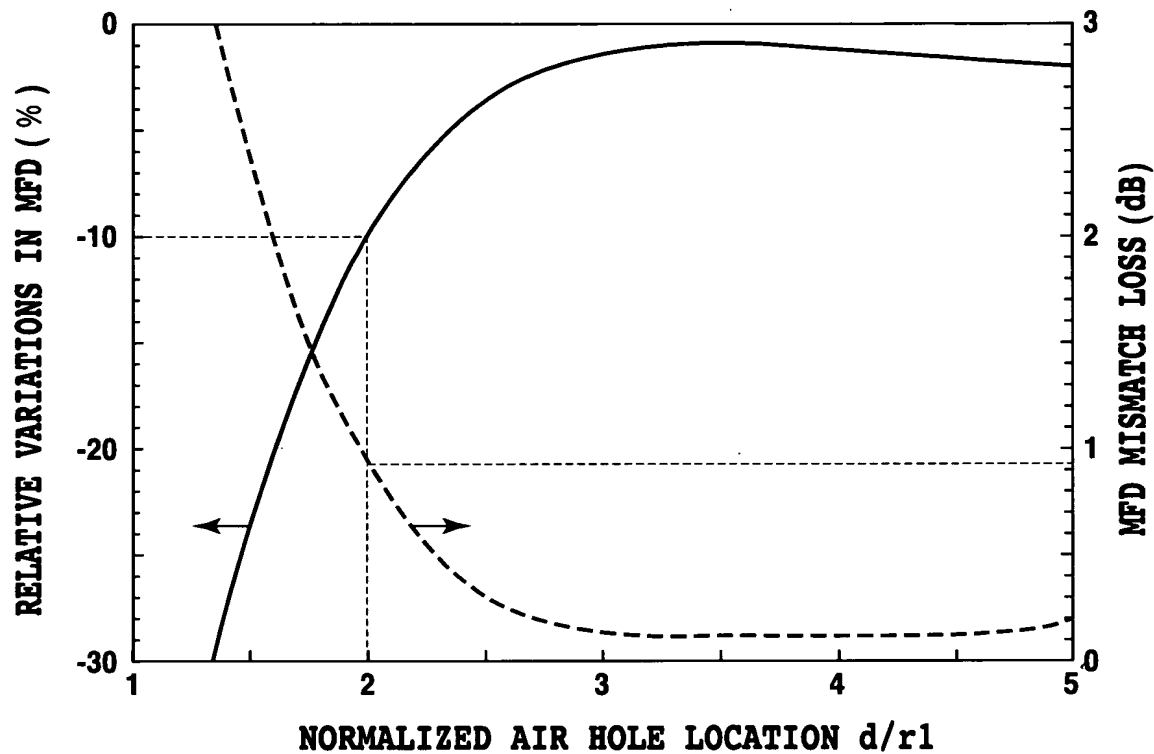


FIG.4



$\lambda = 1310 \text{ nm}$
NUMBER OF AIR
HOLES : EIGHT
 $r_2 = 0.4 \times r_1$
 $r_1 = 4.5 \mu\text{m}$
 $\Delta = 0.32 \%$

FIG.5



$\lambda = 1625 \text{ nm}$
NUMBER OF AIR
HOLES: EIGHT
 $r_2 = 0.4 \times r_1$
 $r_1 = 4.5 \mu\text{m}$
 $\Delta = 0.32 \%$

FIG.6

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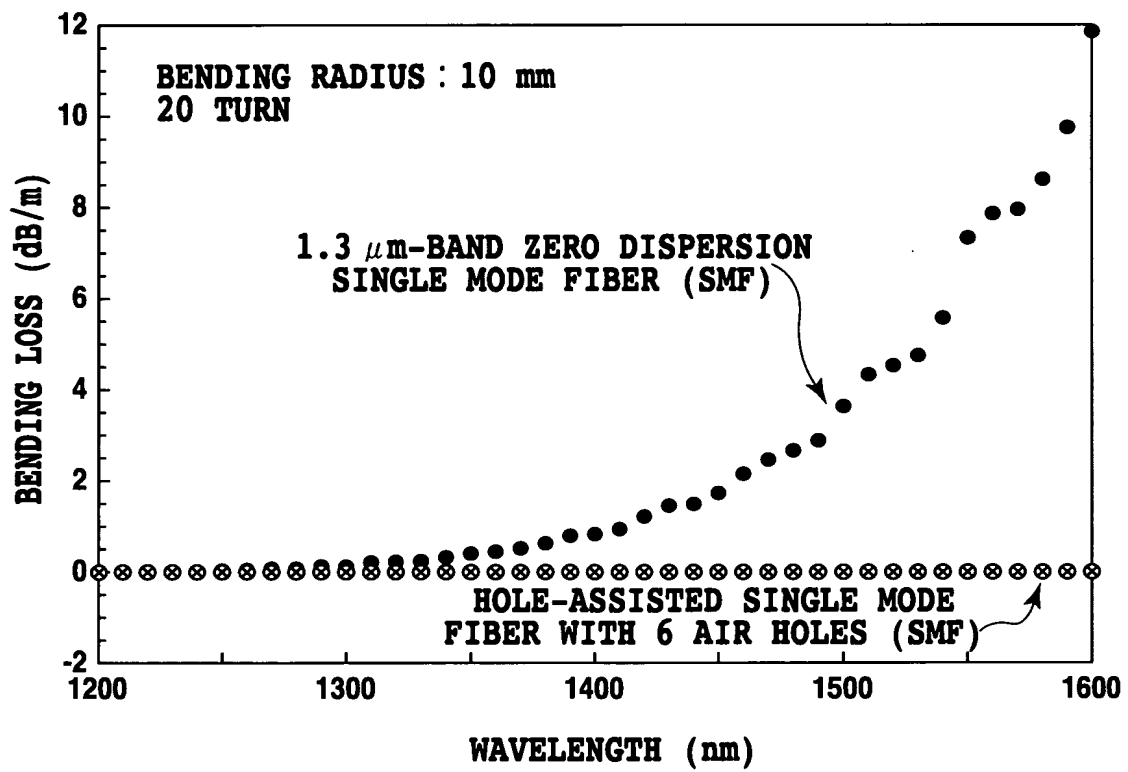


FIG.7

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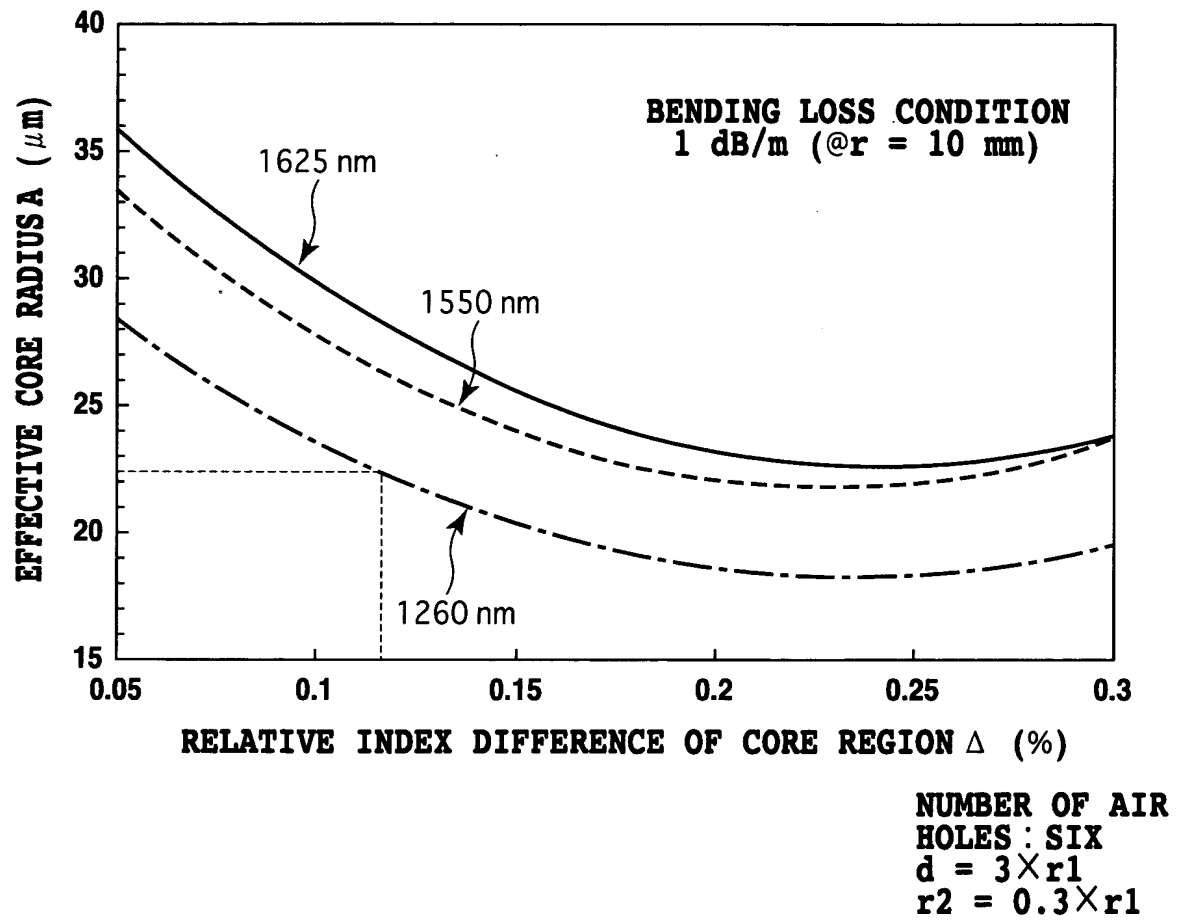


FIG.8

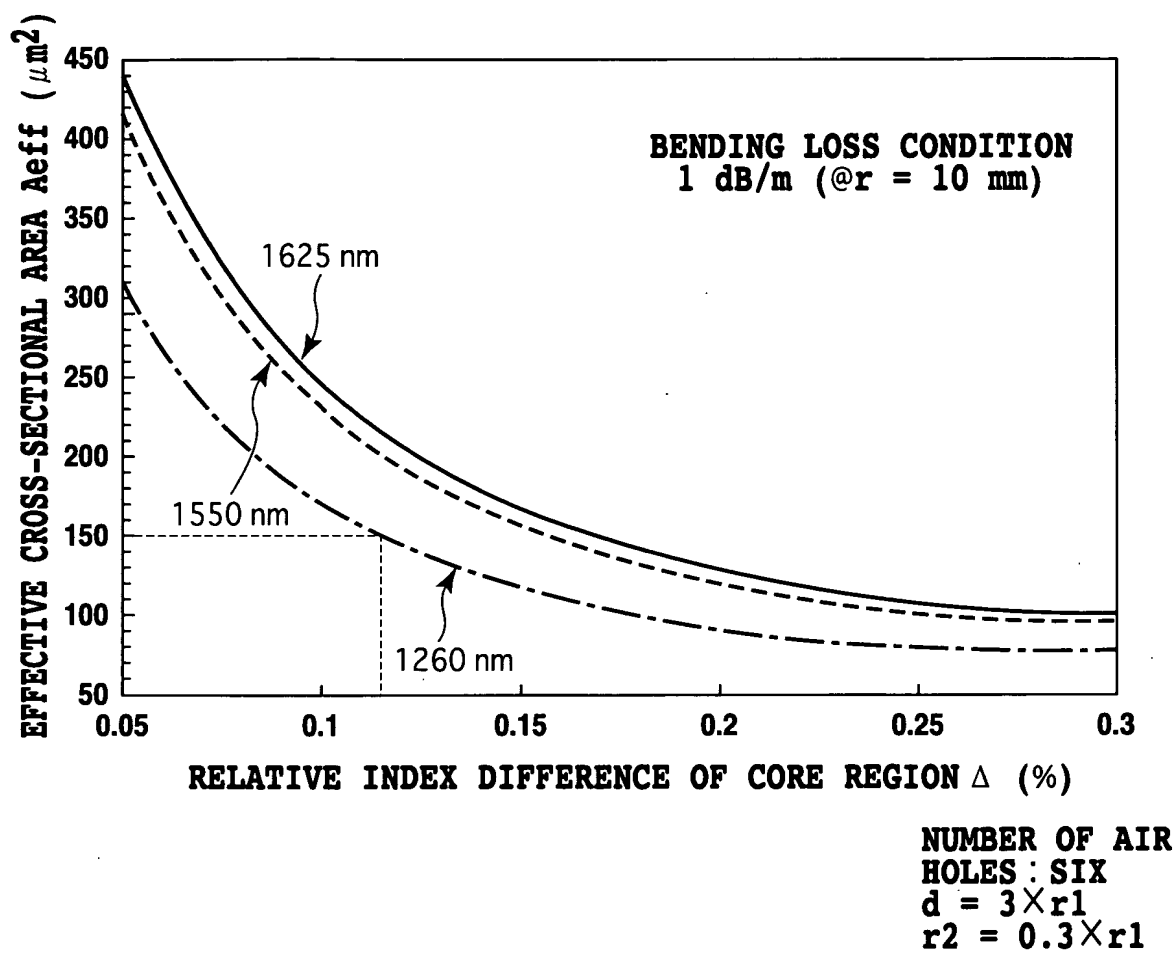


FIG.9

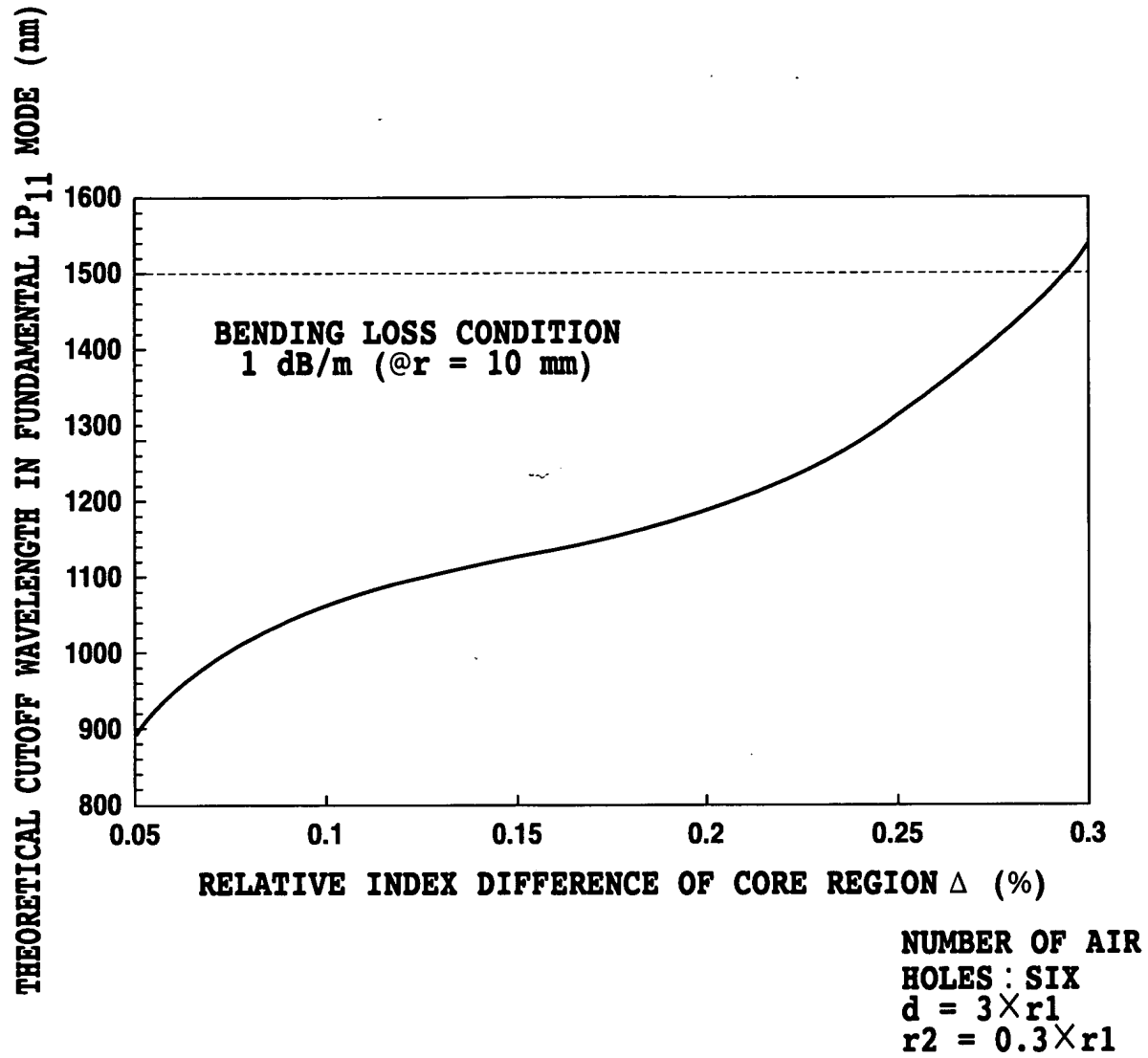


FIG.10